
TWO-FAMILY HOUSES OF CONCRETE MASONRY



First Prize House in the Semi-Detached Class

PRIZE-WINNING AND OTHER DESIGNS SUBMITTED
IN THE ARCHITECTURAL COMPETITION CONDUCTED
BY THE T-SQUARE CLUB OF PHILADELPHIA AND
PORTLAND CEMENT ASSOCIATION ~ ~ ~ ~

TWO-FAMILY HOUSES OF CONCRETE MASONRY

PRIZE-WINNING AND OTHER DESIGNS

MANY new approaches to the problems involved in two-family house design were brought to light in the architectural competition on semi-detached and duplex houses conducted recently under the auspices of the T-Square Club of Philadelphia. Compact, workable arrangements of rooms, well lighted stairways, excellent proportioning of wall to window space, and charming, well proportioned exteriors are some of the particularly noteworthy features developed in the contest. In a large majority of the designs the conventional two-family house style was departed from entirely, double unit houses generally being presented having the appearance of high class, single family residences.

Prize winning and other designs of outstanding merit are reproduced herein as suggestions of the possibilities of beauty and permanence to be attained by the use of concrete masonry and portland cement stucco. It must be realized, however, that the charm each design possesses will be attained in the finished work only through well considered decisions regarding such details as orientation, grades, construction, color, texture and planting, decisions which can only be made by an architect trained and experienced in the design and superintendence of such work.

The drawings, therefore, are intended as an inspiration to the public; they are not put forth with the thought that the complete services of an architect will thus be made superfluous. The professional fees of the architects named herein are in accord with the regular schedule of charges of the American Institute of Architects. Inquiries concerning plans for any of the houses illustrated should be addressed directly to the designer.

Interesting information about concrete masonry and portland cement stucco may be found on pages 22 and 23 of this booklet.

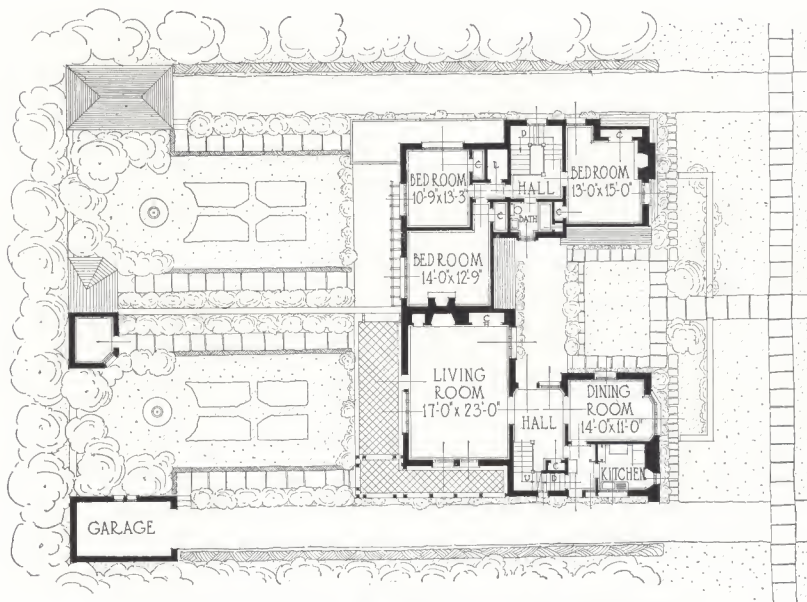
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PORTLAND CEMENT ASSOCIATION

TWO-FAMILY HOUSES OF CONCRETE MASONRY



GARDEN ELEVATION

(Street Elevation shown on Front Cover. Other details on page four)



FIRST AND SECOND FLOOR PLANS, AND PLANTING



FIRST PRIZE HOUSE, SEMI-DETACHED CLASS

Concrete Masonry Construction—Portland Cement Stucco Finish

Designed by Henry G. Rieber
1429 Walnut Street, Philadelphia, Pa.



TWO-FAMILY HOUSES OF CONCRETE MASONRY

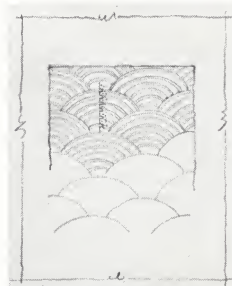


SERVICE ELEVATION

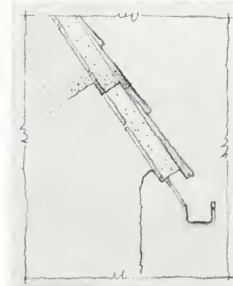
(Other Elevations shown on Front Cover and on page three)



ENTRANCE



TOOLED STUCCO



CONCRETE BARGE



DETAIL OF LIVING ROOM



ADDITIONAL DETAILS, FIRST PRIZE SEMI-DETACHED

Concrete Masonry Construction—Portland Cement Stucco Finish

Designed by Henry G. Rieber
1429 Walnut Street, Philadelphia, Pa.

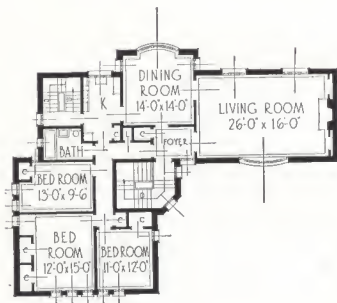


TWO-FAMILY HOUSES OF CONCRETE MASONRY

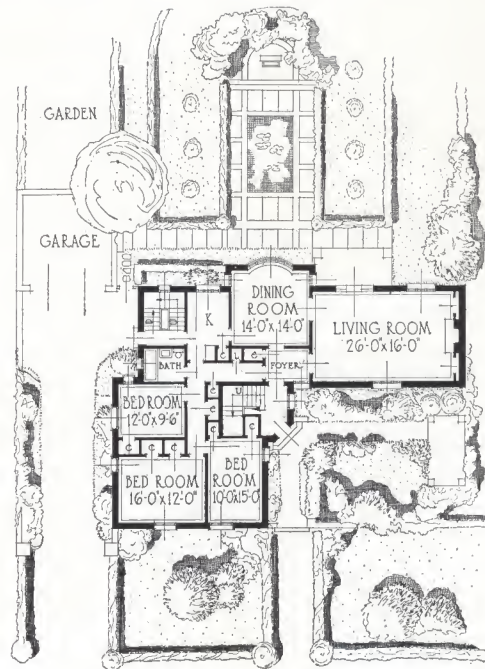


FRONT ELEVATION

(Garden Elevation
and Details shown
on page six)



SECOND FLOOR PLAN



FIRST FLOOR PLAN AND PLANTING



FIRST PRIZE HOUSE, DUPLEX CLASS
Concrete Masonry Construction—Portland Cement Stucco Finish

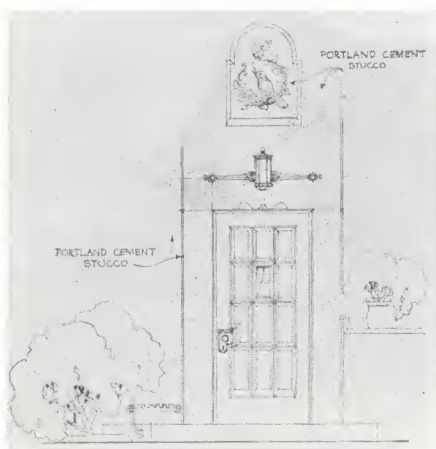
Designed by Alfred Kastner
154 East 46th St., New York, N. Y.



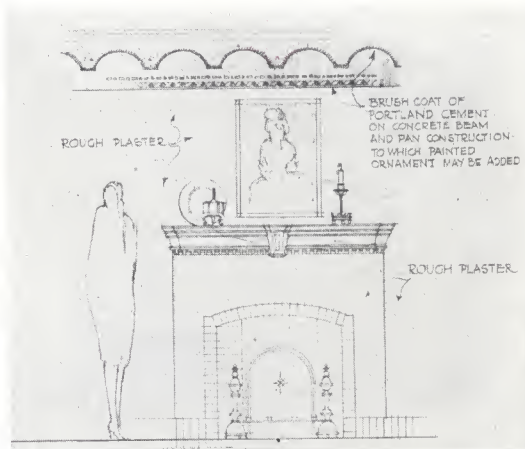
TWO-FAMILY HOUSES OF CONCRETE MASONRY



GARDEN ELEVATION
(Front Elevation and Plans shown on Page Five)



EXTERIOR DETAIL



INTERIOR DETAIL



ADDITIONAL DETAILS, FIRST PRIZE DUPLEX

Concrete Masonry Construction—Portland Cement Stucco Finish

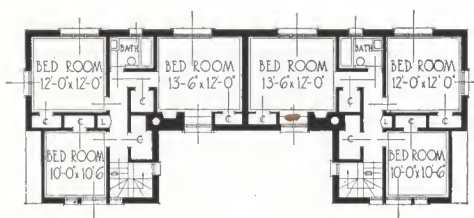
Designed by Alfred Kastner
154 East 46th St., New York, N. Y.



TWO-FAMILY HOUSES OF CONCRETE MASONRY



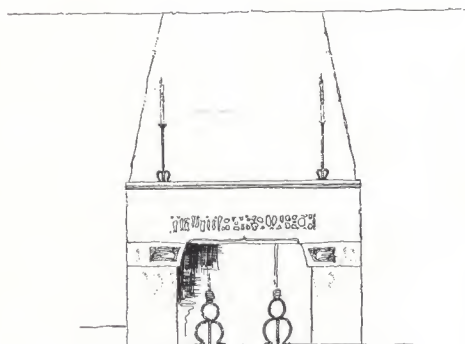
FRONT ELEVATION



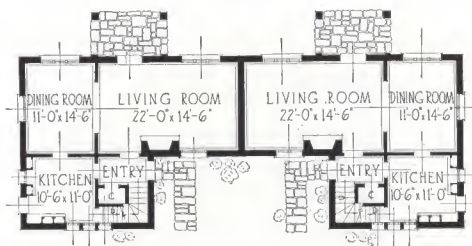
SECOND FLOOR PLAN



COURT ENTRANCE DETAIL



FIREPLACE DETAIL



FIRST FLOOR PLAN



SECOND PRIZE HOUSE, SEMI-DETACHED CLASS

Concrete Masonry Construction—Portland Cement Stucco Finish

Designed by John Donald Tuttle

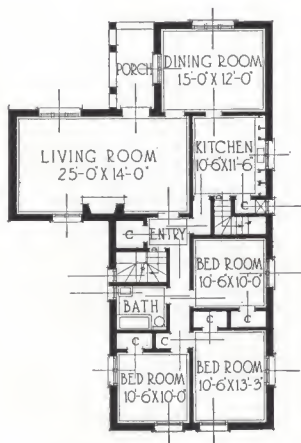
19 East 49th St., New York, N. Y.



TWO-FAMILY HOUSES OF CONCRETE MASONRY



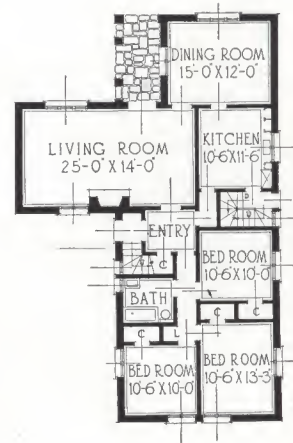
FRONT ELEVATION



SECOND FLOOR PLAN



ENTRANCE DETAIL



FIRST FLOOR PLAN



SECOND PRIZE HOUSE, DUPLEX CLASS

Concrete Masonry Construction—Portland Cement Stucco Finish

Designed by John Donald Tuttle

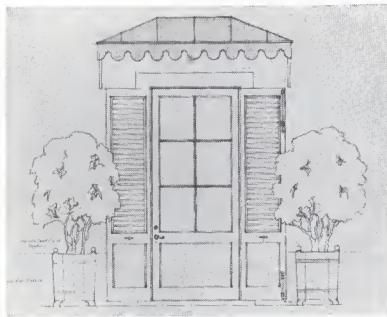
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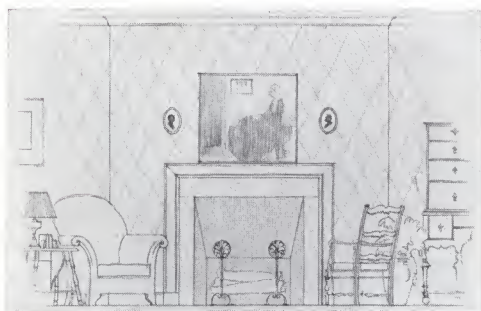
TWO-FAMILY HOUSES OF CONCRETE MASONRY



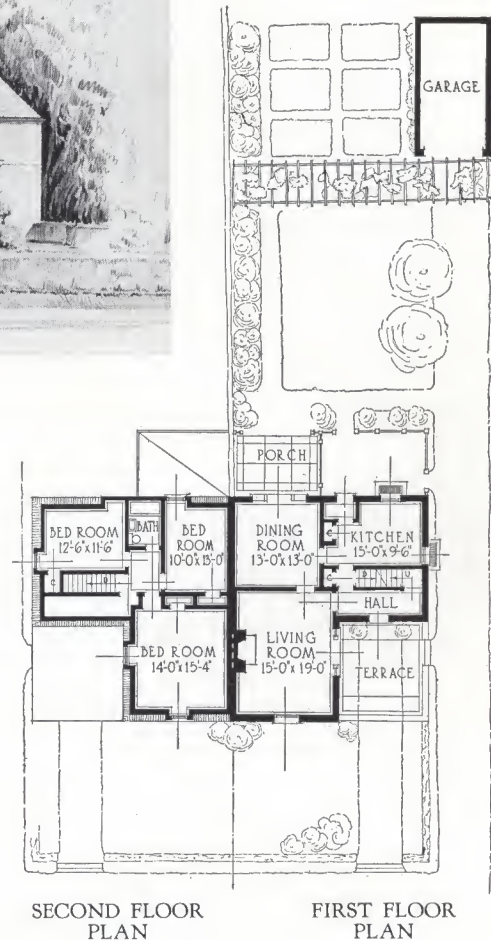
FRONT ELEVATION



ENTRANCE DETAIL



FIREPLACE



SECOND FLOOR
PLAN

FIRST FLOOR
PLAN



THIRD PRIZE HOUSE, SEMI-DETACHED CLASS

Concrete Masonry Construction—Portland Cement Stucco Finish

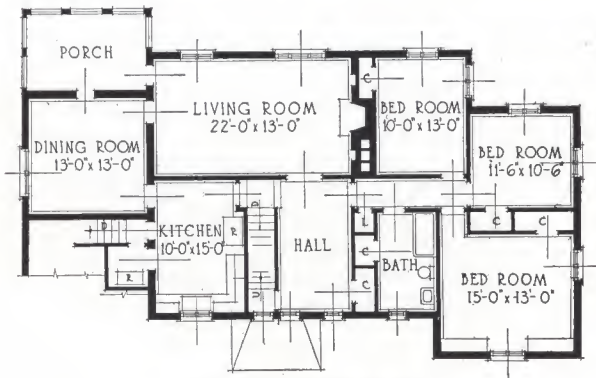
Designed by Stewart Wilson Pike
1520 Locust St., Philadelphia, Pa.



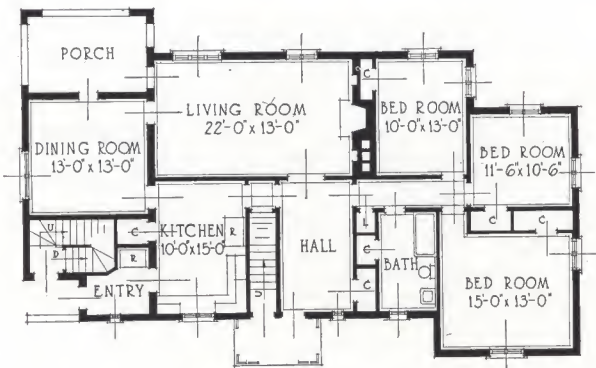
TWO-FAMILY HOUSES OF CONCRETE MASONRY



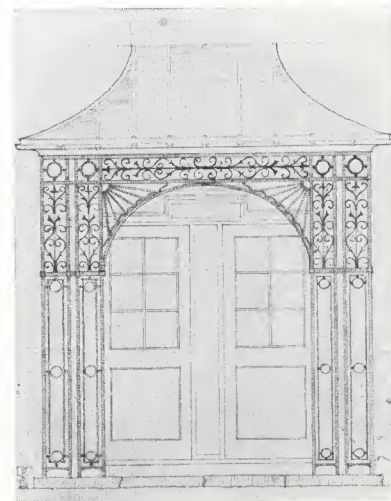
FRONT ELEVATION



SECOND FLOOR PLAN



FIRST FLOOR PLAN



DETAIL OF FRONT ENTRANCE



THIRD PRIZE HOUSE, DUPLEX CLASS
Concrete Masonry Construction—Portland Cement Stucco Finish

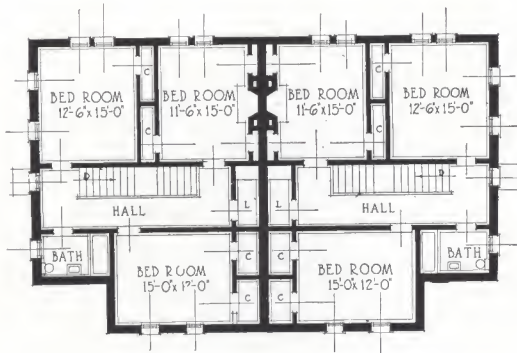
Designed by Frank C. Burke
 76 Spruce St., Watertown, Mass.



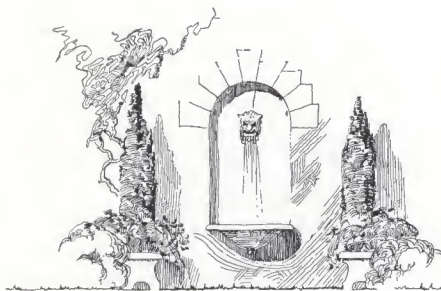
TWO-FAMILY HOUSES OF CONCRETE MASONRY



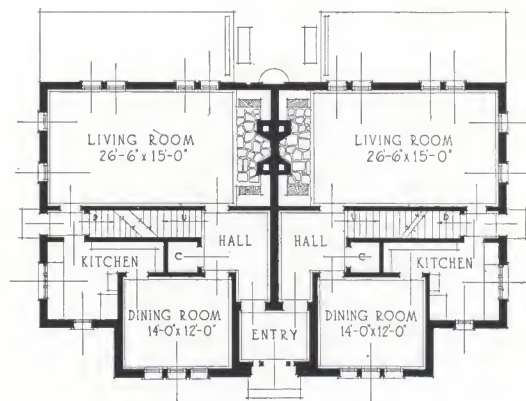
FRONT ELEVATION



SECOND FLOOR PLAN



WALL FOUNTAIN



FIRST FLOOR PLAN



AN HONORABLE MENTION, SEMI-DETACHED HOUSE

Concrete Masonry Construction—Portland Cement Stucco Finish

Designed by Walter C. Campbell

61 Revere St., Boston, Mass.



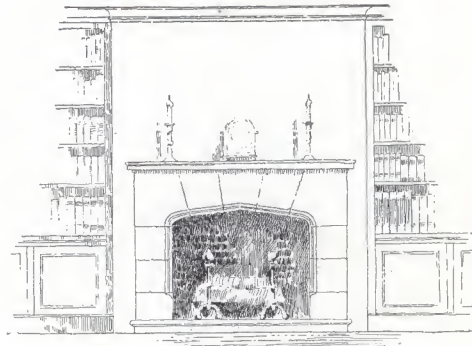
TWO-FAMILY HOUSES OF CONCRETE MASONRY



FRONT ELEVATION



SECOND FLOOR PLAN



FIREPLACE DETAILS



FIRST FLOOR PLAN



SIDE ELEVATION



AN HONORABLE MENTION, SEMI-DETACHED HOUSE

Concrete Masonry Construction—Portland Cement Stucco Finish

Designed by J. Pendlebury

101 Park Avenue, New York, N. Y.



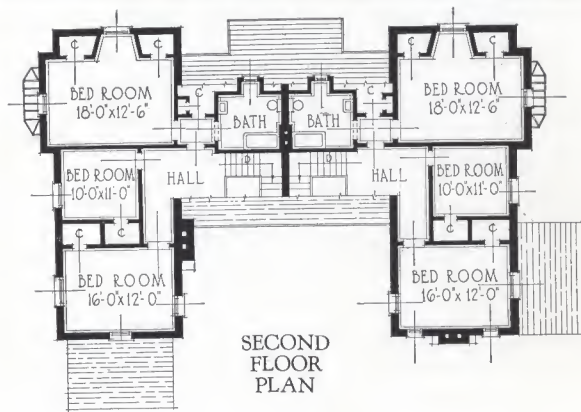
TWO-FAMILY HOUSES OF CONCRETE MASONRY



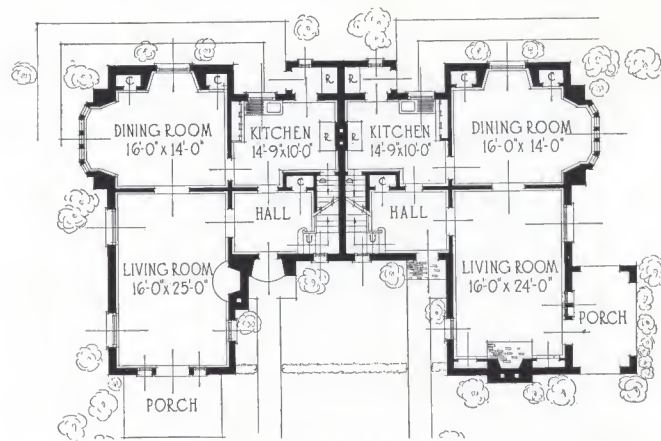
FRONT ELEVATION



ENTRANCE DETAIL



SECOND FLOOR PLAN



FIRST FLOOR PLAN



AN HONORABLE MENTION, SEMI-DETACHED HOUSE

Concrete Masonry Construction—Portland Cement Stucco Finish

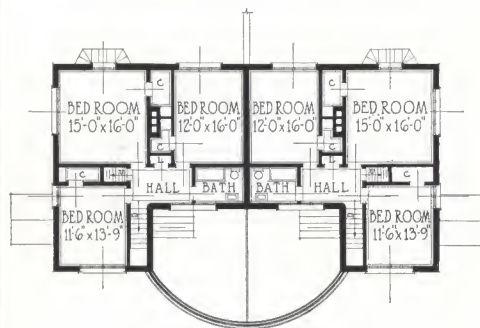
Designed by W. S. Cruise and C. M. Craig
604 McKnight St., Reading, Pa.



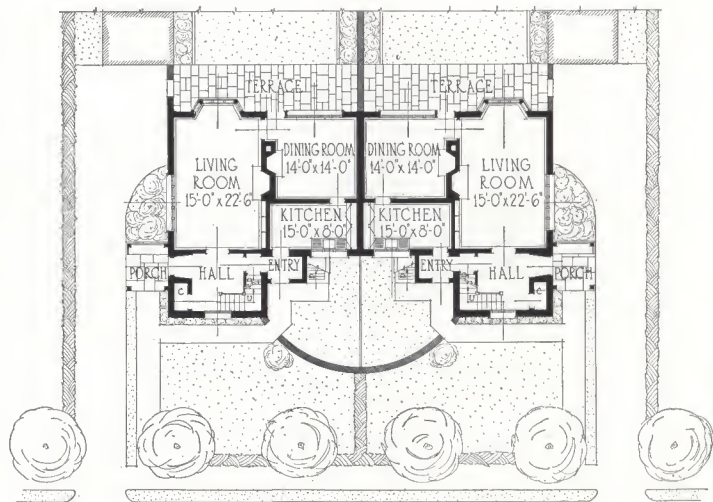
TWO-FAMILY HOUSES OF CONCRETE MASONRY



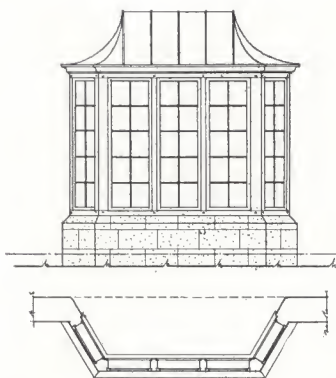
STREET ELEVATION



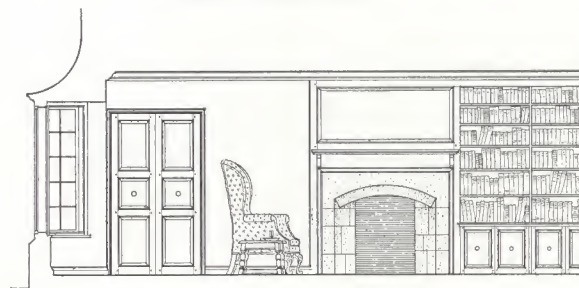
SECOND FLOOR PLAN



FIRST FLOOR PLAN



BAY WINDOW DETAILS



SECTION THROUGH LIVING ROOM



AN HONORABLE MENTION, SEMI-DETACHED HOUSE

Concrete Masonry Construction—Portland Cement Stucco Finish

Designed by Donald Robb Cochran

205 South Juniper St., Philadelphia, Pa.



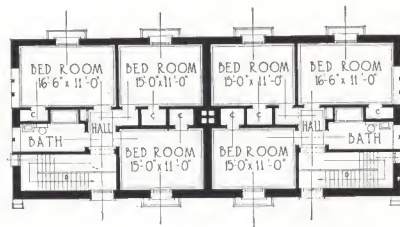
TWO-FAMILY HOUSES OF CONCRETE MASONRY



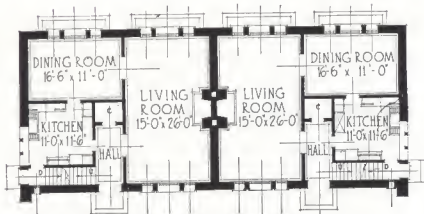
FRONT ELEVATION



MAIN ENTRANCE

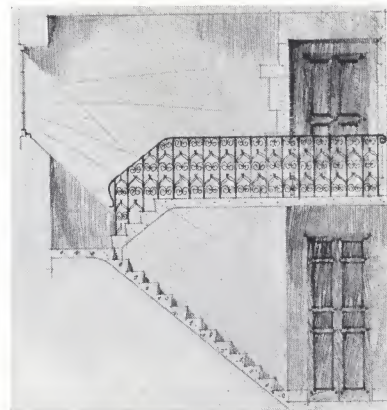


SECOND FLOOR PLAN



FIRST FLOOR PLAN

STAIR
TO
SECOND
FLOOR

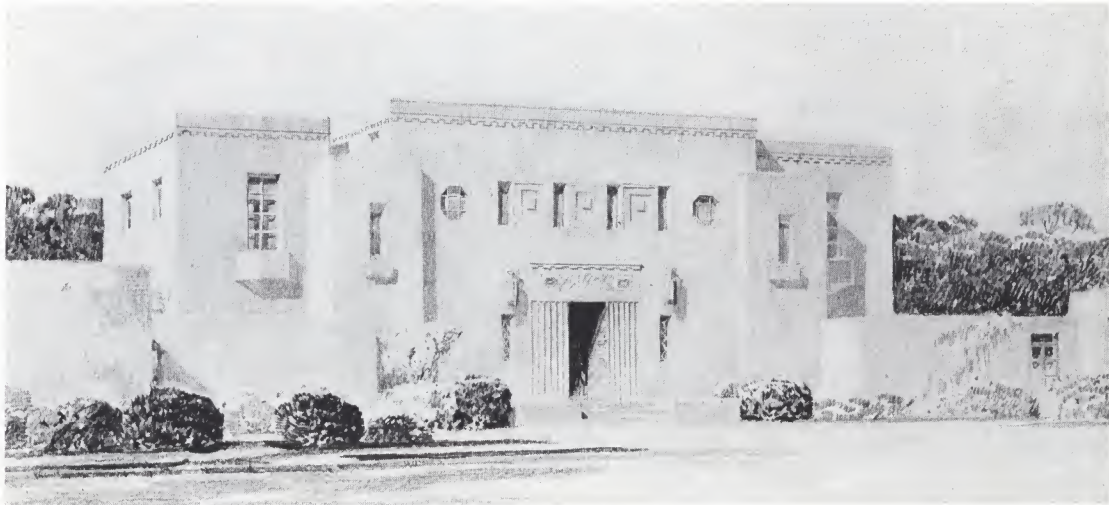


A SEMI-DETACHED HOUSE
 Concrete Masonry Construction—Portland Cement Stucco Finish

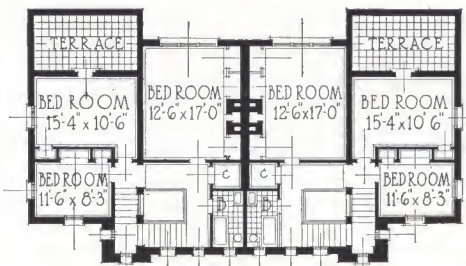
Designed by John Thomas Grisdale
 830 Pine St., Philadelphia, Pa.



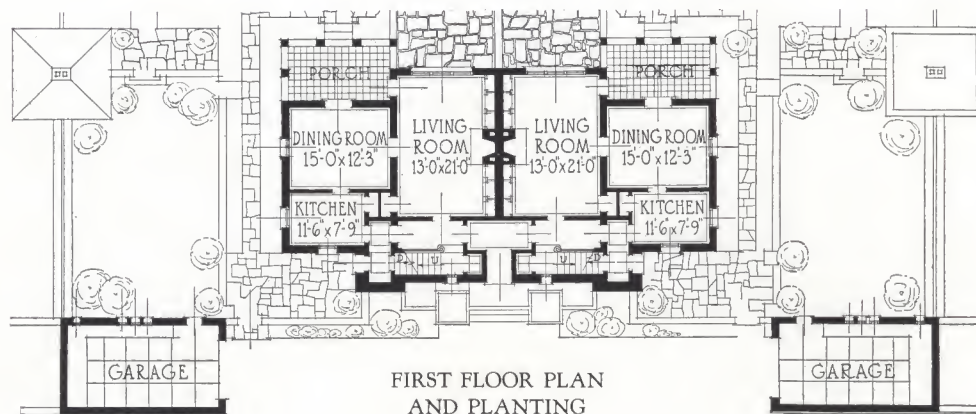
TWO-FAMILY HOUSES OF CONCRETE MASONRY



STREET ELEVATION



SECOND FLOOR PLAN



FIRST FLOOR PLAN
AND PLANTING



A SEMI-DETACHED HOUSE

Concrete Masonry Construction—Portland Cement Stucco Finish

Designed by John Floyd Yewell and Julian Crowgey

10 East 43rd St., New York, N. Y.



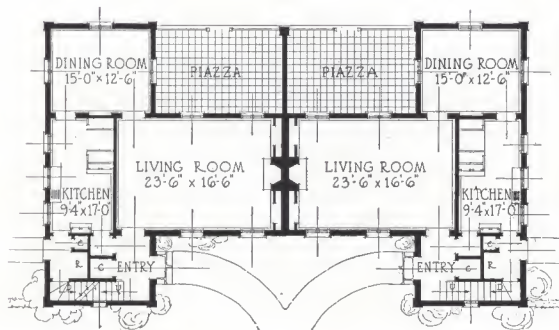
TWO-FAMILY HOUSES OF CONCRETE MASONRY



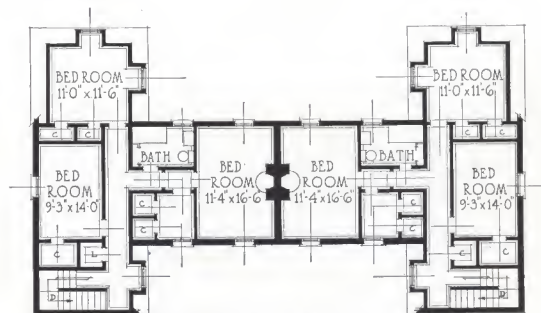
FRONT ELEVATION



ENTRANCE LANTERN



FIRST FLOOR PLAN



SECOND FLOOR PLAN



A SEMI-DETACHED HOUSE

Concrete Masonry Construction—Portland Cement Stucco Finish

Designed by Samuel H. Jamison, Jr.

126 N. Front St., Wormleysburg, Pa.



TWO-FAMILY HOUSES OF CONCRETE MASONRY



STREET ELEVATION



SECOND FLOOR PLAN



FIRST FLOOR PLAN



A SEMI-DETACHED HOUSE

Concrete Masonry Construction—Portland Cement Stucco Finish

Designed by Howard R. Meyer

23 West 73rd St., New York, N. Y.



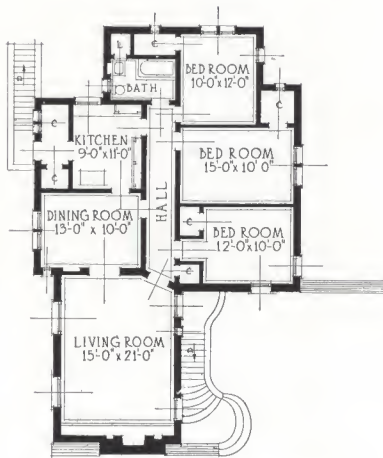
TWO-FAMILY HOUSES OF CONCRETE MASONRY



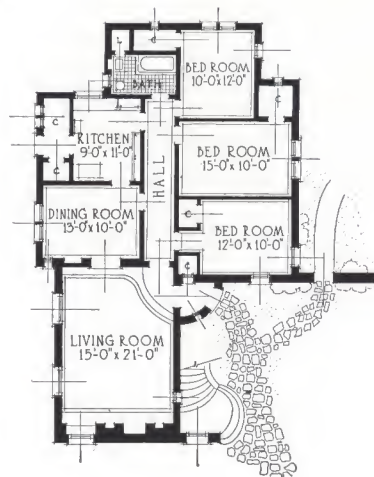
FRONT ELEVATION



ENTRANCE DETAIL



SECOND FLOOR PLAN



FIRST FLOOR PLAN



A DUPLEX HOUSE

Concrete Masonry Construction—Portland Cement Stucco Finish

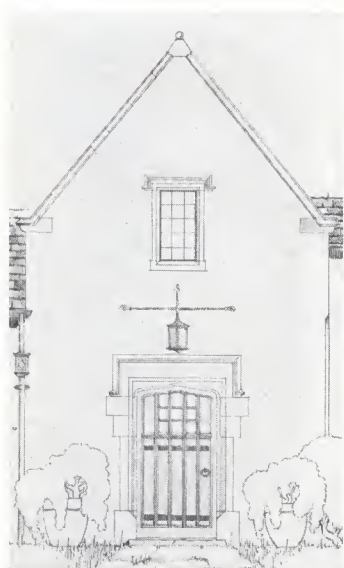
Designed by Edward A. Gehrke
20 West 48th St., New York, N. Y.



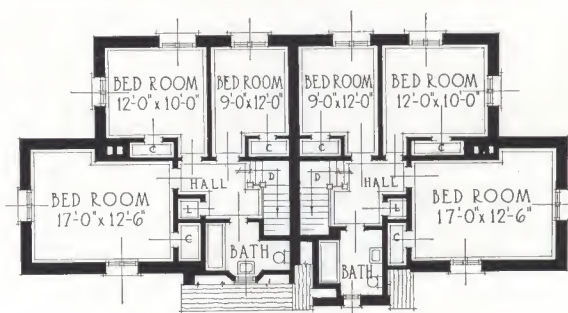
TWO-FAMILY HOUSES OF CONCRETE MASONRY



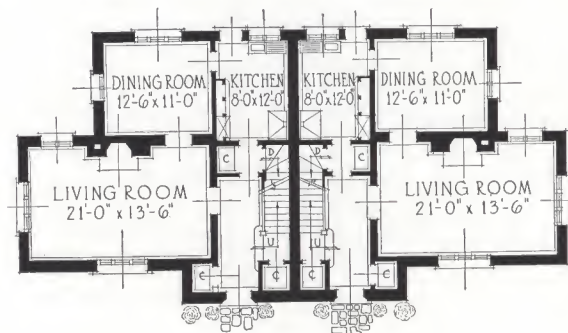
STREET ELEVATION



ENTRANCE DETAIL



SECOND FLOOR PLAN



FIRST FLOOR PLAN



A SEMI-DETACHED HOUSE

Concrete Masonry Construction—Portland Cement Stucco Finish

Designed by Henry W. Barone and Albert M. Koch

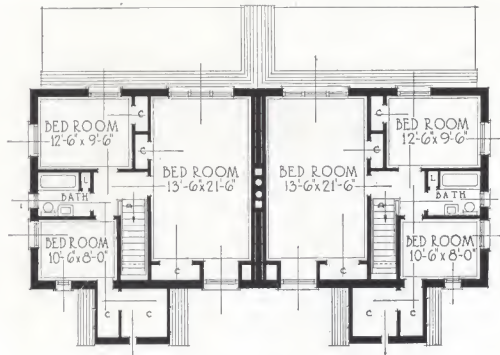
3135 89th St., Jackson Heights, New York, N. Y.



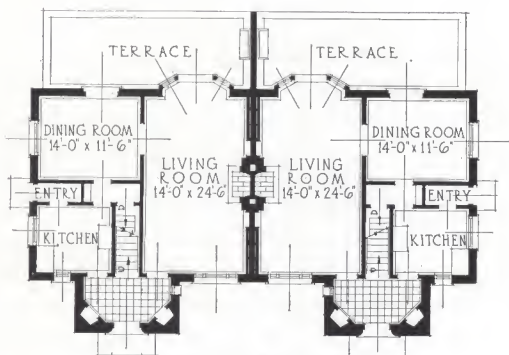
TWO-FAMILY HOUSES OF CONCRETE MASONRY



FRONT ELEVATION



SECOND FLOOR PLAN



FIRST FLOOR PLAN



LIVING ROOM FIREPLACE



A SEMI-DETACHED HOUSE

Concrete Masonry Construction—Portland Cement Stucco Finish

Designed by F. F. Schumann
1520 Locust St., Philadelphia, Pa.



CONCRETE MASONRY FOR HOME BUILDING

WHEN two families are to be housed under a single roof, each family with complete, independent living quarters, the important requirements of built-in firesafety and effective sound deadening take on increased significance. Conditions in two-family houses approach those prevailing in hotel or apartment occupancy, making firesafe, sound-resisting floors and walls and incombustible roof coverings the preferred construction.

Quality Construction

For the two-family houses reproduced herein, concrete masonry was selected as the structural material because it provides at moderate cost the requisite qualities for double-unit home construction. Exterior walls of concrete masonry are effective barriers to fires of exterior origin in both the semi-detached and duplex houses. In the semi-detached house the dividing walls, also of concrete masonry, keep fires originating within either of the homes from spreading to the other. The concrete masonry dividing walls are also efficient sound deadeners, confining noises. Other advantages obtained through the use of concrete masonry are the qualities of permanence and durability inherent in portland cement concrete.

What Concrete Masonry Is

The term "concrete masonry" includes block, tile and brick, made with gravel, stone, cinder, haydite or other suitable aggregates, the basic ingredient in every case being portland cement. These concrete building units are made in practically every building center in the country. Concrete masonry has been recognized as standard construction by such organizations as the American Concrete Institute, the Building Code Committee of the United States Department of Commerce, the Underwriters Laboratories and the Building Officials Conference.

Exterior Wall Finishes

Portland cement stucco was chosen as the exterior finish for these two-family houses because it provides an artistic enduring wall covering obtainable in a variety of colors and textures. Booklets containing more detailed information about portland cement stucco and its application are obtainable on request; write to the nearest dis-

trict office of the Portland Cement Association and they will be sent without cost or obligation.

Floor Construction

As an additional safeguard against fire-hazards in these two-family houses it is suggested that first floors be of concrete construction—the concrete masonry walls providing a substantial support for such floors. Insurance statistics show that a large proportion of residence fires start in the basement and if not confined with a firesafe first floor the flames soon burn their way to the principal rooms of the house, often making escape extremely difficult. The wisdom of having a firesafe floor of concrete between the first and second units of a duplex house is likewise evident.

Concrete floor construction, for many years considered standard in commercial occupancies because of its firesafe and structural qualities, is ideally suited to residential construction. The same degree of comfort, convenience and luxury found in hotels, fine offices, clubs and other public buildings is available to the average home owner through concrete

masonry houses having concrete floors.

Types of concrete residential floor construction now in general use—tile and joist, solid slab and concrete ribbed—are illustrated on the facing page. Additional information, including standard details that show how the floors are built, is available on request.

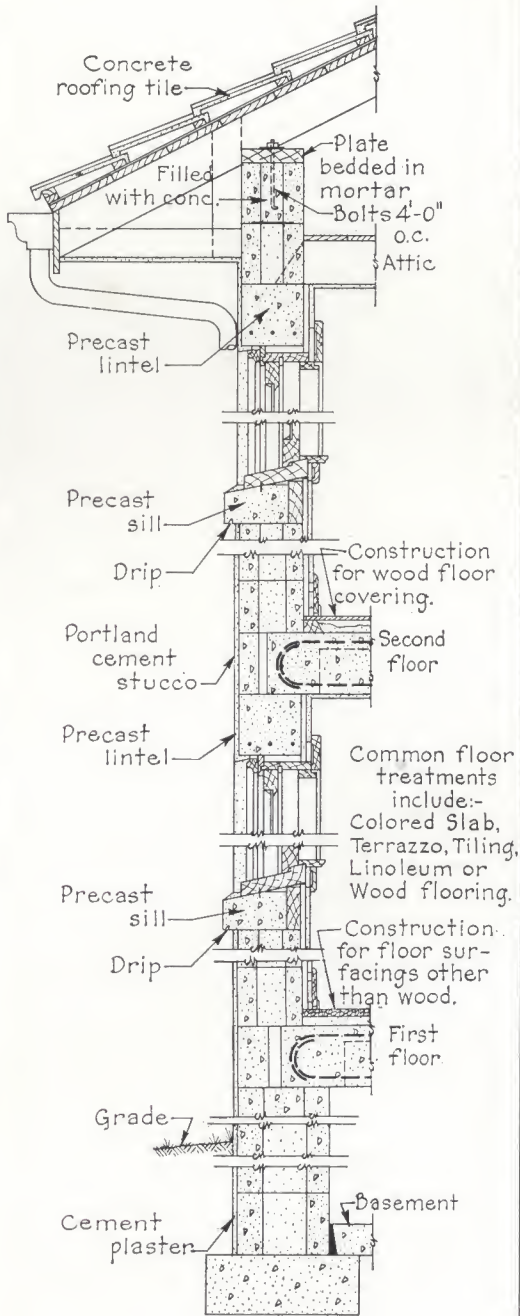
Coverings for Concrete Floors

A wide variety of floor finishes is available as practically any type of covering or surfacing may be applied to concrete floors. Common coverings for use in living and dining rooms are the wood floorings such as maple, birch, beech and oak. Linoleum, terrazzo and concrete tile have also come into extensive use. Another excellent finish is that provided by the concrete slab itself, colored in tones of dark red or green or brown or other desirable color, subsequently treated with oil or filler and then waxed. The surface coat is often marked off into squares or other patterns resembling tiling. Little effort is required to keep such floors clean, polished and good looking. They provide a pleasing background for rugs and furniture.



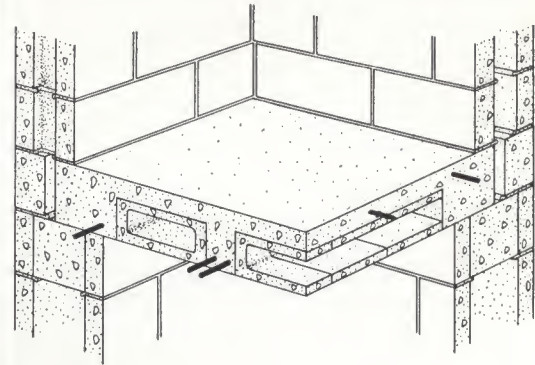
The Concrete Tile Floor in Living Room of the J. F. Conrin Residence, Los Angeles, Harmonizes with the Concrete Walls and Staircases and the Rich Furnishings

TWO-FAMILY HOUSES OF CONCRETE MASONRY

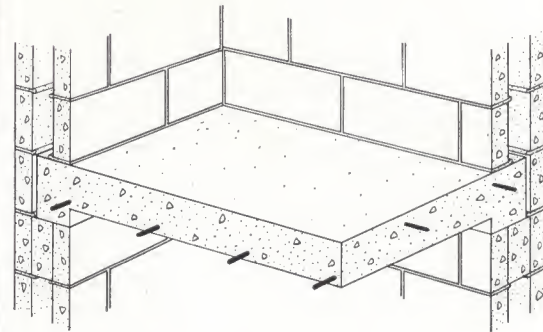


BLOCK AND STUCCO
SIMILAR CONSTRUCTION USED FOR
TILE

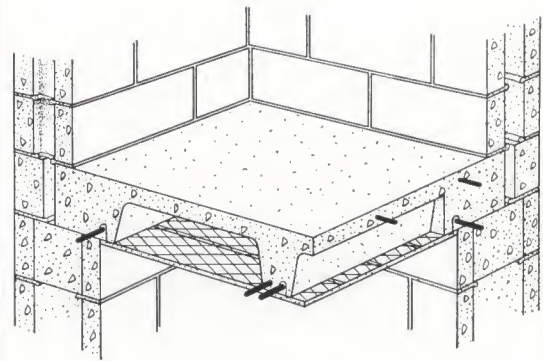
TYPICAL WALL SECTION



Tile and Joist Floor Construction



Solid Slab Floor Construction

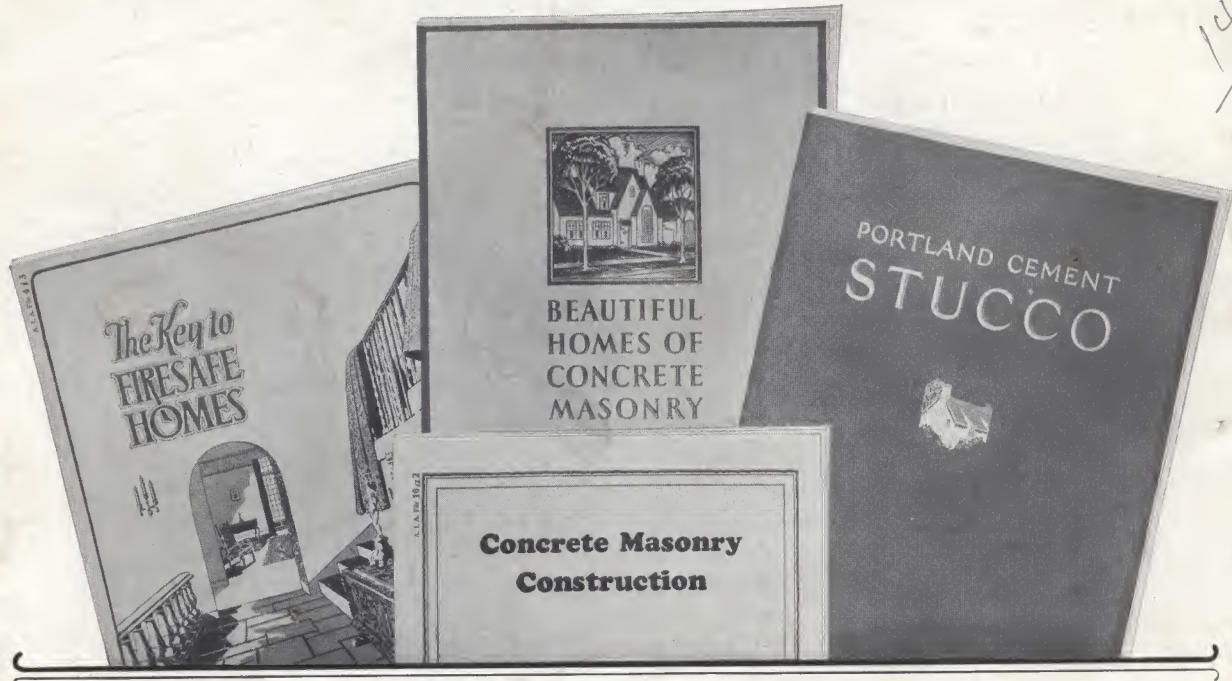


Ribbed Floor Construction

CONCRETE FLOORS

Note the airspace at the edge of the concrete floor slabs between the slab and the exterior masonry, provided to prevent capillarity.

Select the Book That Interests You



A REQUEST to our nearest District Office will bring you literature and up-to-date information on concrete masonry, concrete residence floors and fire-resistive roof coverings. The combination of these materials provides fire safety at low first cost and construction practically free from maintenance expense.

Increasing use of concrete masonry in dwellings evidences its inherent suitability for home building, not only from a practical standpoint, but because it answers requirements of beauty, dignity and character. The architectural possibilities of the material are unlimited.

PORTLAND CEMENT ASSOCIATION

A NATIONAL ORGANIZATION TO IMPROVE AND EXTEND THE USES OF CONCRETE

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